FIG. 1

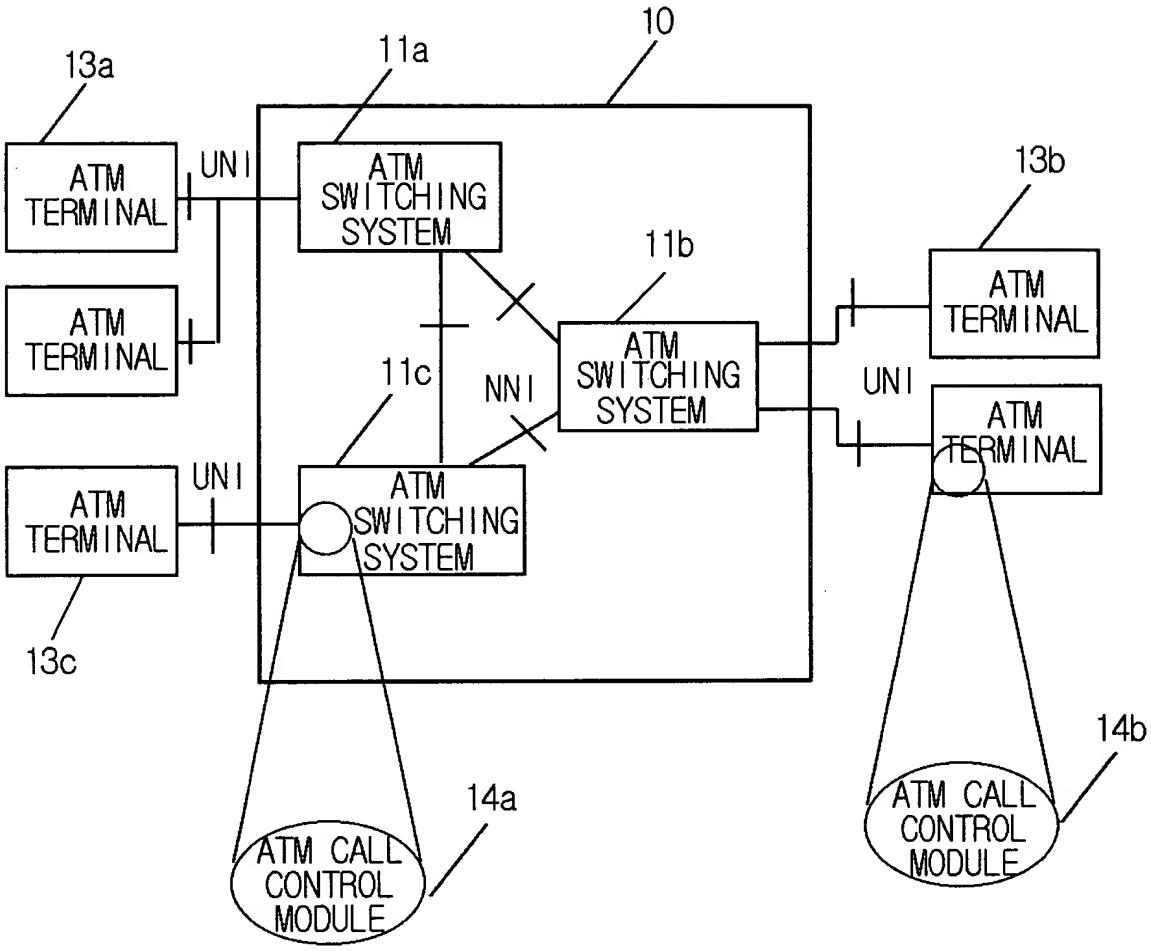
10
13a
11a
ATM TERMINAL
UNI
ATM SWITCHING SYSTEM
13b
11b
ATM TERMINAL
ATM TERMINAL
ATM SWITCHING SYSTEM
11c
NNI
UNI
ATM TERMINAL
UNI
ATM TERMINAL
ATM SWITCHING SYSTEM
13c
14b
14a
ATM CALL CONTROL MODULE
ATM CALL CONTROL MODULE

FIG. 2

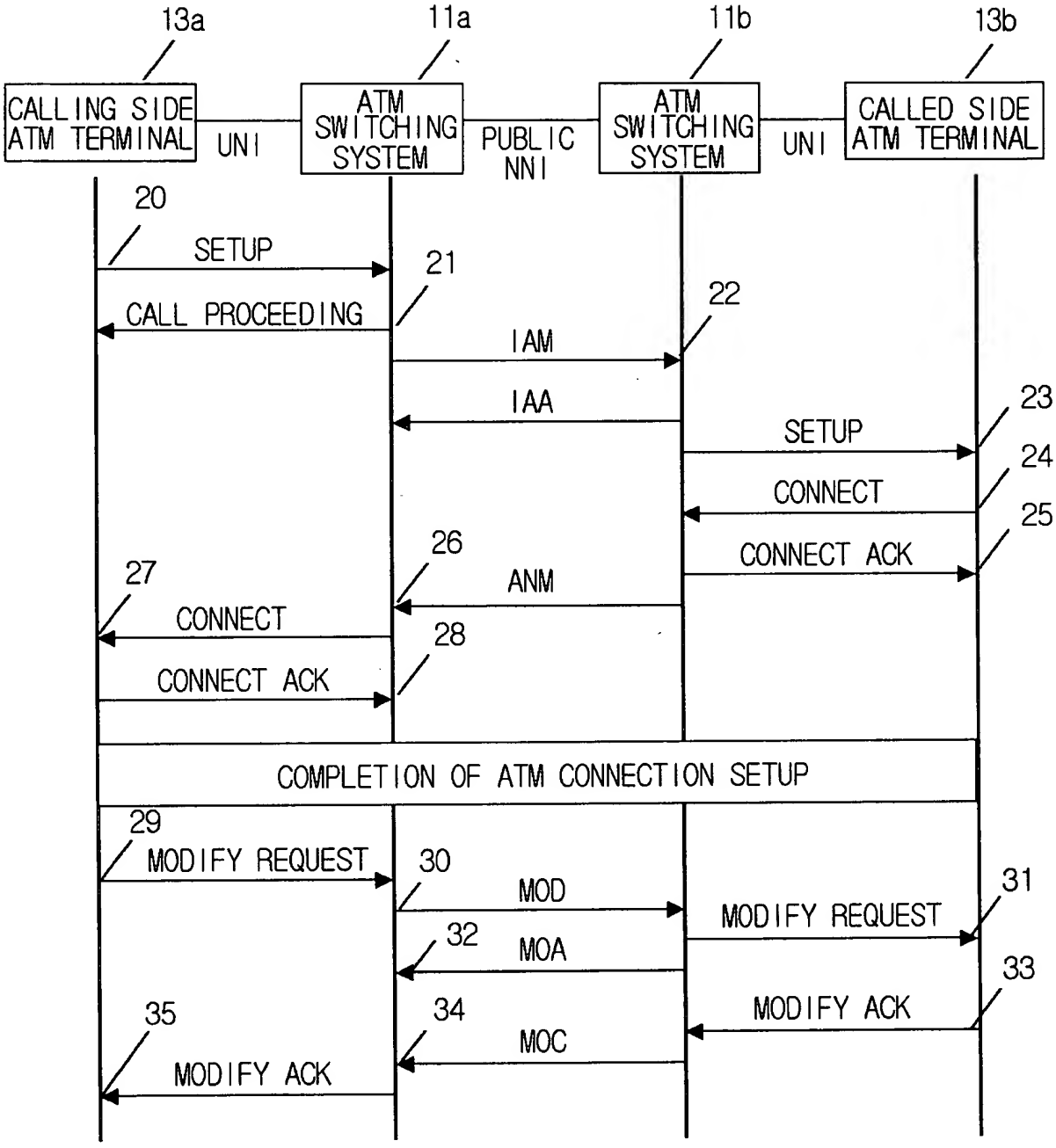
13a
11a
11b
13b
CALLING SIDE ATM TERMINAL
UNI
ATM SWITCHING SYSTEM
PUBLIC NNI
ATM SWITCHING SYSTEM
UNI
CALLED SIDE ATM TERMINAL
20
SETUP
21
CALL PROCEEDING
22
IAM
IAA
23
SETUP
24
CONNECT
25
CONNECT ACK
26
ANM
27
CONNECT
28
CONNECT ACK
COMPLETION OF ATM CONNECTION SETUP
29
MODIFY REQUEST
30
MOD
31
MODIFY REQUEST
32
MOA
33
MODIFY ACK
34
MOC
35
MODIFY ACK

FIG. 3

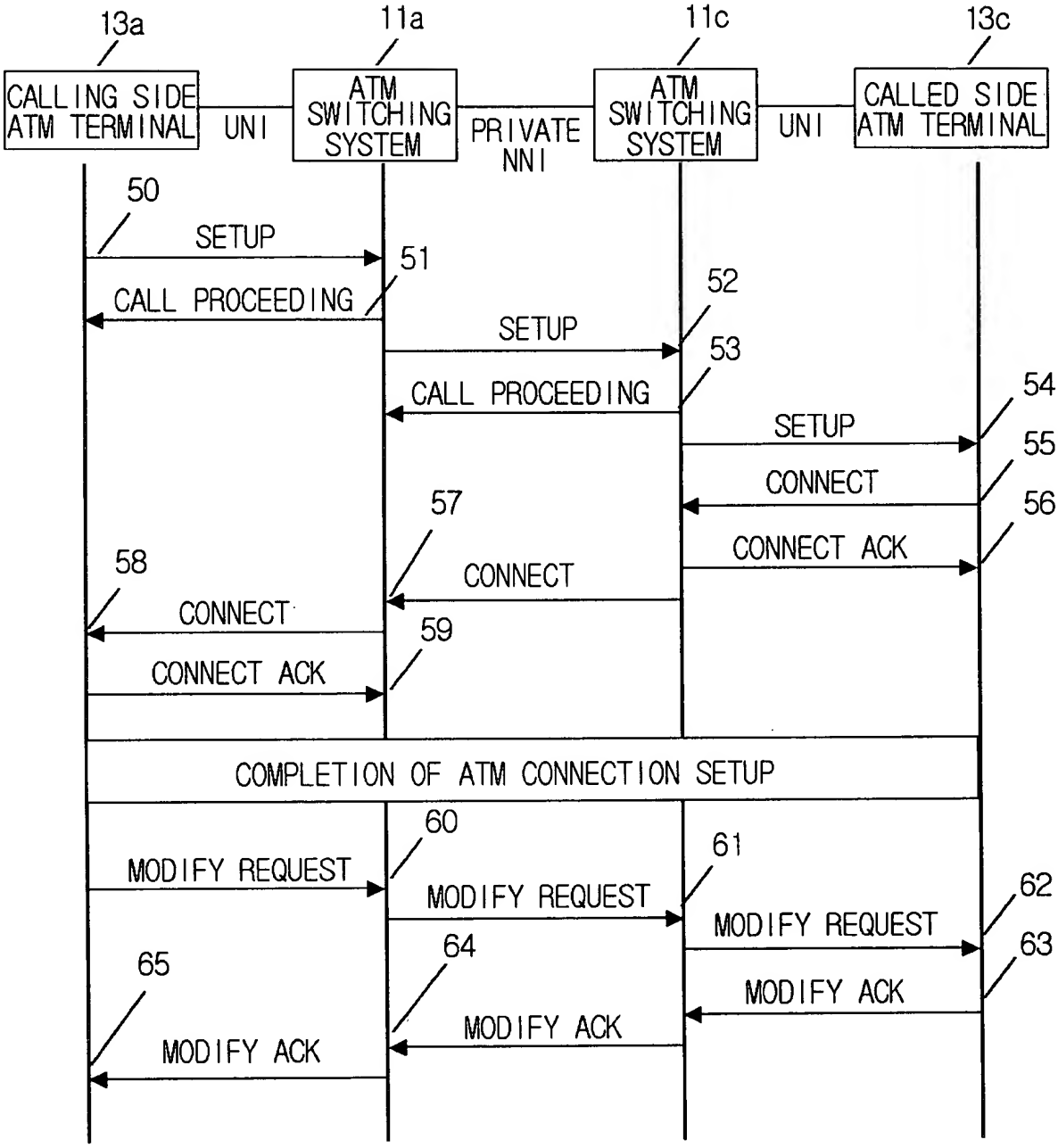
13a
11a
11c
13c
CALLING SIDE ATM TERMINAL
UNI
ATM SWITCHING SYSTEM
PRIVATE NNI
ATM SWITCHING SYSTEM
UNI
CALLED SIDE ATM TERMINAL
50
SETUP
51
CALL PROCEEDING
52
SETUP
53
CALL PROCEEDING
54
SETUP
55
CONNECT
57
56
CONNECT ACK
58
CONNECT
CONNECT
59
CONNECT ACK
COMPLETION OF ATM CONNECTION SETUP
60
MODIFY REQUEST
61
MODIFY REQUEST
62
MODIFY REQUEST
64
63
65
MODIFY ACK
MODIFY ACK
MODIFY ACK

FIG. 4

Information element	Type	Note
Protocol discriminator	Mandatory	
Call reference	Mandatory	
Message type	Mandatory	
Message length	Mandatory	
ABR setup parameter	Optional	Necessary information element in requesting ABR traffic
ATM traffic descriptor	Mandatory	
Broadband bearer capability	Mandatory	
Broadband sending complete	Mandatory	Necessary information element in En bloc address signaling
Called party number	Mandatory	
Minimum acceptable ATM traffic descriptor	Optional	Necessary information lelment in ATM traffic negotiation
Narrowband bearer capability	Optional	Necessary information element in NISDN cooperation
QoS parameter	Mandatory	
Soft PVC called endpoint	Optional	Necessary information element in requesting soft PVC connection
Soft PVC calling endpoint	Optional	
Generic identifier transport	Optional	Necessary information element in internet cooperation

FIG. 5

Information element	Type	Note
Protocol discriminator	M	
Call reference	M	
Message type	M	
Message length	M	
ATM traffic descriptor	M	ATM traffic information to be modified

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FIG. 6

- Bearer class
  - BCOB-A
  - BCOB-C
  - BCOB-X
  - Transparent VP Service
- ATM transfer capability(ATC)
  - Deterministic Bit Rate(DBR)
  - Statistical Bit Rate(SBR)
  - Available Bit Rate(ABR)
  - Unspecified Bit Rate(UBR)
- User plane connection configuration
  - Point-to-Point(PtP)
  - Point-to-Multipoint(PtMP)

FIG. 7

- Identifier related standard/application
  - IPv4
  - ST2+
  - IPv6
  - MPLS
  - MPOA
- Identifier type
  - Session
  - Resource
  - MPOA VPN identifier
  - Experimental/organization specific identifier

FIG. 8

ATM connection type	PtP	PtMP	DBR	SBR	ABR	UBR	NISDN Cooperation	IP Cooperation	Traffic negotiation	Traffic modification	Soft-PVC
PtP	-	-	O	O	O	O	O	O	O	O	O
PtMP	-	-	O	O	X	O	X	O	O	O	O
DBR	O	O	-	-	-	-	O	O	O	O	O
SBR	O	O	-	-	-	-	X	O	O	O	O
ABR	O	X	-	-	-	-	X	O	O	O	O
UBR	O	O	-	-	-	-	X	O	X	X	O
NISDN cooperation	O	X	O	X	X	X	-	-	X	X	X
IP cooperation	O	O	O	O	O	O	-	-	O	O	O
Traffic negotiation	O	O	O	O	O	O	X	O	-	O	O
Traffic modification	O	O	O	O	O	O	X	O	O	-	O
Soft-PVC	O	O	O	O	O	O	X	O	O	O	-

O:Combination possible, X:Combination impossible, -: Rejected

FIG. 9

<Sentence>

SYNMODE powerset_mode=POWERSET(atm_connection_type_list);

<Example>

① SYNMODE protocol_type=SET(dss2,uni3.1,uni4.0,bisup,bici,pnni)
② SYNMODE connection_conf=SET(ptp,ptmp);
③ SYNMODE atc=SET(dbr,sbr,abr,ubr);
④ SYNMODE bearer_class=SET(vc,vp);
⑤ SYNMODE traffic_negotiation=BOOL;
⑥ SYNMODE traffic_modification=BOOL;
⑦ SYNMODE service_type=SET(atm,nisdn,ip,fr);
⑧ SYNMODE connection_owner=SET(calling,called);
⑨ SYNMODE address_type=SET(en_bloc,overlap);
⑩ SYNMOCE soft_pvc=BOOL;

<Memory used for SET mode and BOOLEAN mode>

1	2	3	4	5	6	7	8	BIT / BYTE
								1
								2
								:
								10

EP 0 952 750 A2

FIG. 10

<Sentence>

```
SYNMODE powerset_mode=POWERSET(atm_connection_type_list);
```

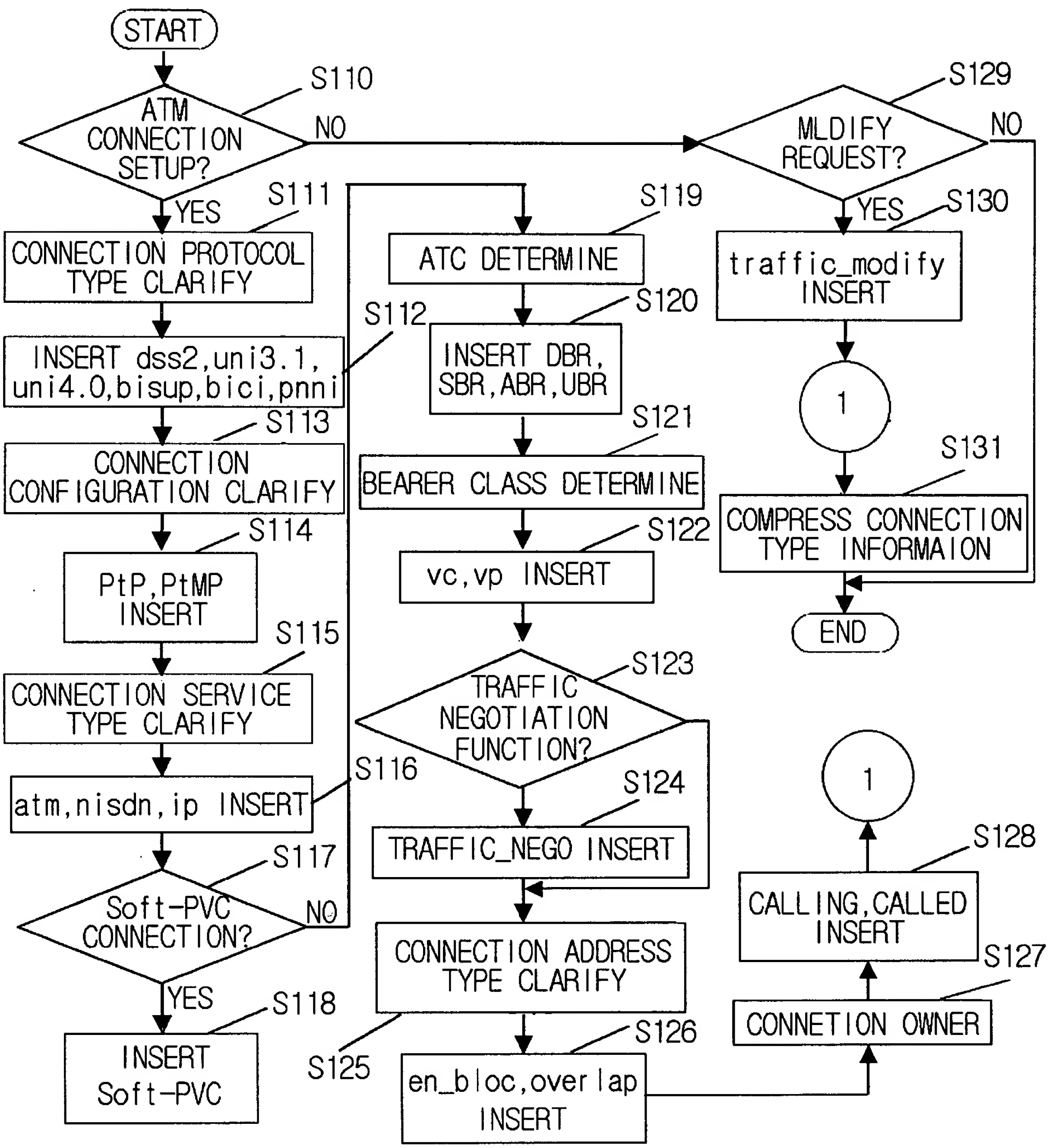
<Example>

```
SYNMODE atm_connection_type_list=SET(dss2,uni3.1,uni4.0,bisup,bici,pnni,
ptp,ptmp,dbr,sbr,abr,ubr,vc,vp,traffic_nego,traffic_modify,atm,nisdn,ip,
calling,called,en_bloc,overlap,soft_pvc);
```

<Memory used for POSERSET mode>

1	2	3	4	5	6	7	8	BIT / BYTE
								1
								2
								3
								4

FIG. 11



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